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SUBJECT CODE NO: - GOE-9254
FACULTY OF COMMERCE AND MANAGEMENT
(COMMERCE AND MANAGEMENT) (GOE) (NEP) (PATTERN -2024) SEM III
Examination November / December 2025
Digital Electronics

[Time: 1 Hour]

[Max. Marks: 30]

Please check whether you have got the right question paper.

N. B

- i) No.1 is compulsory
 ii) Attempt any four Questions from Q.No.2 to Q.No.7

Q1 A) Multiple Choice Question.

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i) Which of the following is an example of a digital Electronic ?

- A) Computer
 B) Information appliances
 C) Digital Camera
 D) All of the above.

ii) Which number system has a base of 16.

- A) Decimal
 B) Octal
 C) Hexadecimal
 D) None

iii) Which of these sets of logic gates are known as universal gates?

- A) XOR, NAND, OR
 B) OR, XOR
 C) NOR, NAND, XNOR
 D) NOR, NAND

iv) Digital circuit can be made by the repeated use of _____

- A) OR gates
 B) NOT gates
 C) NAND gates
 D) None.

v) The only function of NOT gate is to _____

- A) Stop Signal
 B) Invert input Signal
 C) universal gate.
 D) None of the above.



B) Fill in the blank.

- 1) A — is a closed loop through which electron can pass.
- 2) These are two main types of — Circuit in digital electronics.
- 3) The S-R flip flop, both S and R are — inputs.
- 4) A group of 15 in — cells of a K-map is called Quad.
- 5) — Circuits uses multi-emitter transistors.

Q2 What are the four types of number systems?

Q3 What is the function of a clock in a flip-flop?

Q4 Explain the advantages of a JK flip-flop.

Q5 Discuss Encodes and Decodes in detail.

Q6 Explain the types of Logic Gates.

Q7 Write short note on: (any two)

- A. Half-Adder
- B. K-map
- C. ASCII Code.

